

STT-shaft twist tester

Optical twist and lead tester

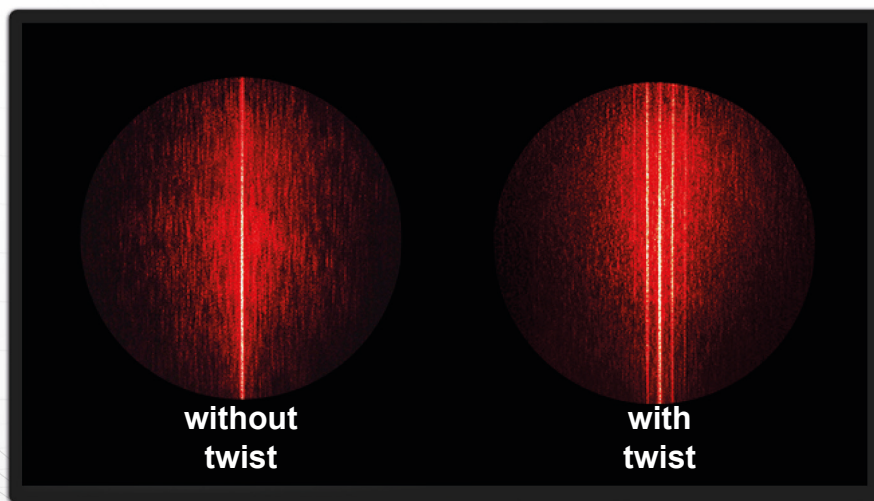


STT - Optical twist test / lead test

Optical twist testing close to production

To avoid leakage on radial shaft sealings the sealing surface has to be manufactured without twist structures. Optical diffraction analysis can visualize twist structures with amplitudes far below the amplitude of the surface roughness. Applying this method, the quality control can be realized quickly and reliably within the production process.

Visual inspection at a glance:



Highlights

- Optical analysis of twist structures
- Close to production, fast and mobile
- Easy to use
- Ideally suited for 100% control
- Optional video / digital camera

With test times in the range of seconds, the devices can be used in a variety of ways, e.g. optimization of the manufacturing process or for 100% control in series production.

STT-shaft twist tester NO

- Twist test close to production
- Quickly operational
- Integrated magnifying glass
- Direct visualization of the test result



STT-shaft twist tester NK

- Adapted digital camera (MFT)
- Twist test close to production
- Evaluation and archiving software
- Test result readable on the camera display

STT-shaft twist tester NV

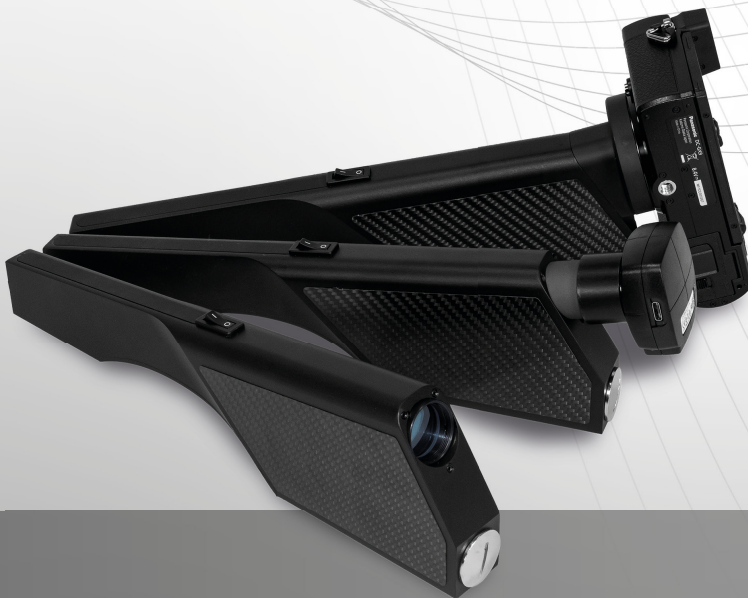
- Twist test close to production
- Dynamic visualization via PC
- Adapted video camera
- Ideally suited for 100% control



Technical data

- Measuring range: Twist period (Dp) 20-500µm
- Twist depth (Dt) > 200nm*
- Axial support length: 15mm
- Shaft diameter: 5 - 300mm
- Laser diode module class 2

* Applies to roughness Ra = 0.1 - 0.5 µm



Contact & information

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